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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/582,547	06/09/2006	Bea Su Jo	2029.02	4731
29338	7590	07/07/2010	EXAMINER	
PARK LAW FIRM 3255 WILSHIRE BLVD SUITE 1110 LOS ANGELES, CA 90010			TOLENTINO, RODERICK	
			ART UNIT	PAPER NUMBER
			2439	
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary

Application No.

10/582,547

Applicant(s)

JO, BEA SU

Examiner

Roderick Tolentino

Art Unit

2439

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 04/05/2010.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-26 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-26 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 09 June 2006 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-893)
- Paper No(s)/Mail Date _____

- 4) ☐ Interview Summary (PTO-413)
- Paper No(s)/Mail Date _____
- 5) ☐ Notice of Informal Patent Application
- 6) ☐ Other: _____

DETAILED ACTION

1. Claims 1 – 26 are pending.

Response to Arguments

2. Applicant's arguments with respect to claim 1 have been considered but are moot in view of the new ground(s) of rejection, as necessitated by amendment by applicant on 04/05/2010.

Claim Rejections - 35 USC § 103

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

4. Claims 1, 5 – 14 and 18 – 26 are rejected under 35 U.S.C. 103(a) as being unpatentable over Morioka et al. U.S. Patent No. (6,526,010) in view of Hars U.S. PG-Publication No. (2006/0230460).
5. As per claims 1 and 13, Morioka teaches an initial value generation unit for generating an initial value used to generate a random number for a distorting filter (Morioka, Col. 2 Lines 54 – 67, initial value generating unit), a random number generation unit for generating a random number for the distorting based on the initial value transmitted from the initial value generation unit (Morioka, Col. 2 Lines 54 – 67, random value generating unit), a filter generation unit for generating a distorting filter

based on the initial value and the random number (Morioka, Col. 2 Lines 21 – 26, scrambling unit using random values based on initial values) but fails to teach a data filtering unit for distorting original contents into distorted contents by filtering the original contents with the distorting filter; an encoding unit for encoding the distorted contents output from the data filtering unit; a signal insertion unit for encrypting the initial value information generated by the initial value generation unit and inserting the encrypted filter initial value into the distorted contents and an image correction unit for inserting image correction information into the encoded distorted contents transmitted from the encoding unit. However, in an analogous art Hars teaches a data filtering unit for distorting original contents into distorted contents by filtering the original contents with the distorting filter (Hars, Paragraph 0004, distortion algorithm), an encoding unit for encoding the distorted contents output from the data filtering unit a signal insertion unit for encrypting the initial value information generated by the initial value generation unit and inserting the encrypted filter initial value into the distorted contents and an image correction unit for inserting image correction information into the encoded distorted contents transmitted from the encoding unit (Hars, Paragraph 0018, encoded and encrypted data).

At the time the invention was made, it would have been obvious to a person of ordinary skill in the art to use Hars' hierarchical scheme for secure multimedia distribution with Morioka's recording medium for recording/reproducing information which has been scrambled using a medium identifier and a sector number because it offers the advantage secure distribution of electronic content (Hars, Paragraph 0001).

6. As per claims 5 and 18, Morioka teaches the configuration setting value determined by the configuration setting unit includes information on at least one of the number of partitions per frame of contents, the number of partitions to which the random number for the distorting filter is applied, an occupation rate of the random number for the distorting filter applied to the partitions of each of the frames of the contents, the number of distorting filters applied to streams of the digital contents, and a stream range to which the distorting filter is applied (Morioka, Col. 2 Lines 21 – 26, scrambling unit using random values based on initial values).
7. As per claims 6 and 19, Morioka teaches an initial value encrypting unit for encrypting the initial value information generated by the initial value generation unit (Hars, Paragraph 0018, encoded and encrypted data).
8. As per claims 7 and 20, Morioka teaches a signal packaging unit for packaging and transmitting a plurality of image signals to which the image correction information and the encrypted filter initial value are inserted (Hars, Paragraph 0018, encoded and encrypted data).
9. As per claims 8 and 21, Morioka teaches a decoding unit for decompressing and decoding a distorted contents a contents analyzing unit for extracting recovering information for the distorted contents , a signal extraction unit for extracting an encrypted filter initial value and image correction information from the decompressed distorted contents, and a contents recovering unit for generating a recovering filter based on the filter initial value and recovering contents from the distorted contents by

using the recovering filter (Morioka, Col. 3 Lines 43 – 59, receiving data and descrambling).

10. As per claims 9 and 22, Morioka teaches a decoding scheme of the decoding unit is determined corresponding to an encoding scheme of an encoding unit of a distorted contents generating apparatus (Hars, Paragraph 0022, means for decoding digital signals).

11. As per claims 10 and 23, Morioka teaches the contents analyzing unit performs detecting the encrypted filter initial value information and the correction information (Morioka, Col. 3 Lines 43 – 59, receiving data and descrambling).

12. As per claims 11 and 25, Morioka teaches the contents recovering unit comprises: a recovering filter generation unit for generating the recovering filter based on the encrypted filter initial value provided from the signal extraction unit; a data filtering unit for filtering the distorted contents with the generated recovering filter; and a contents correction unit for correcting a portion of the recovered contents based on the correction information transmitted from the signal extraction unit (Morioka, Col. 3 Lines 43 – 59, receiving data and descrambling).

13. As per claims 12 and 26, Morioka teaches an initial value decryption unit for decrypting the encrypted filter initial value transmitted from the signal extraction unit; a random number generation unit for generating an filter value information used to recover the contents based on the decrypted initial value transmitted from the initial value decryption unit; and an inverse filter generation unit for generating the recovering filter used to recover the distorted contents based on the filter information value

transmitted from the random number generation unit and the decrypted initial value transmitted from the initial value decryption unit (Hars, Paragraph 0006, decrypting data).

14. As per claim 14, Morioka teaches generating a predetermined random value based on the generated initial value; and generating a distorting filter based on the generated random value and the generated initial value (Morioka, Col. 2 Lines 21 – 26, scrambling unit using random values based on initial values)

15. As per claim 24, Morioka teaches the contents analyzing step further performs a step of detecting the encrypted filter initial value information and the correction information (Hars, Paragraph 0006, decrypting data).

16. Claims 2 – 4 and 15 – 17 are rejected under 35 U.S.C. 103(a) as being unpatentable over Morioka et al. U.S. Patent No. (6,526,010) and Hars U.S. PG-Publication No. (2006/0230460) in view of Guenebaud U.S. PG-Publication No. (2006/0053457).

17. As per claims 2 and 15, Morioka fails to teach the original contents is an analog signal, and wherein the apparatus further comprises an analog-to-digital conversion unit for converting the analog signal to a digital signal and outputting the digital signal to the data filtering unit. However, in an analogous Guenebaud teaches the original contents is an analog signal, and wherein the apparatus further comprises an analog-to-digital conversion unit for converting the analog signal to a digital signal and outputting the

digital signal to the data filtering unit (Guenebaud, Paragraph 0037, analog to digital conversion).

At the time the invention was made it would have been obvious to a person of ordinary skill in the art to use Guenebaud's module system for processing digital signals with Morioka's recording medium for recording/reproducing information which has been scrambled using a medium identifier and a sector number because it offers the advantage of pirating tv data (Guenebaud, Paragraph 0004).

18. As per claims 3 and 16, Morioka as modified teaches a data determination unit for analyzing format information of the original contents; and a configuration setting unit for determining a configuration setting value of the distorting filter based on the analyzed format information (Guenebaud, Paragraph 0080, receiving data and descrambling).

19. As per claims 4 and 17, Morioka as modified teaches the data determination unit analyzes at least information of a screen size, the number of frames, a reproducing time, and a date amount per unit time of the original contents (Guenebaud, Paragraph 0080, receiving data and descrambling).

Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP

§ 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Roderick Tolentino whose telephone number is (571) 272-2661. The examiner can normally be reached on Monday - Friday 9am to 5pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Edan Orgad can be reached on (571) 272-3811. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Roderick Tolentino
Examiner
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